

BYCHKOVA, N.

What was the subject of the discussion at the "Vtoraia Severnaia"
Mine? Izobr. i rats. no.6:29-30 Je '61. (MIRA 14:6)

1. Spetsial'nyy korrespondent zhurnala "Izobretatel' i
ratsionalizator", g. Severo-Zadonsk, Tul'skoy oblasti.
(Severo-Zadonsk--Coal mines and mining)

BECHKOVA, N.

Who has to pay the inventor? Izobr. i rats. no.1:23-24, Ja '62.
(MIRA 14:12)
(Technological innovations)

EYCHKOVA, N.

Visit of the public prosecutor. Izobr.i rats. no.1:36 '63.

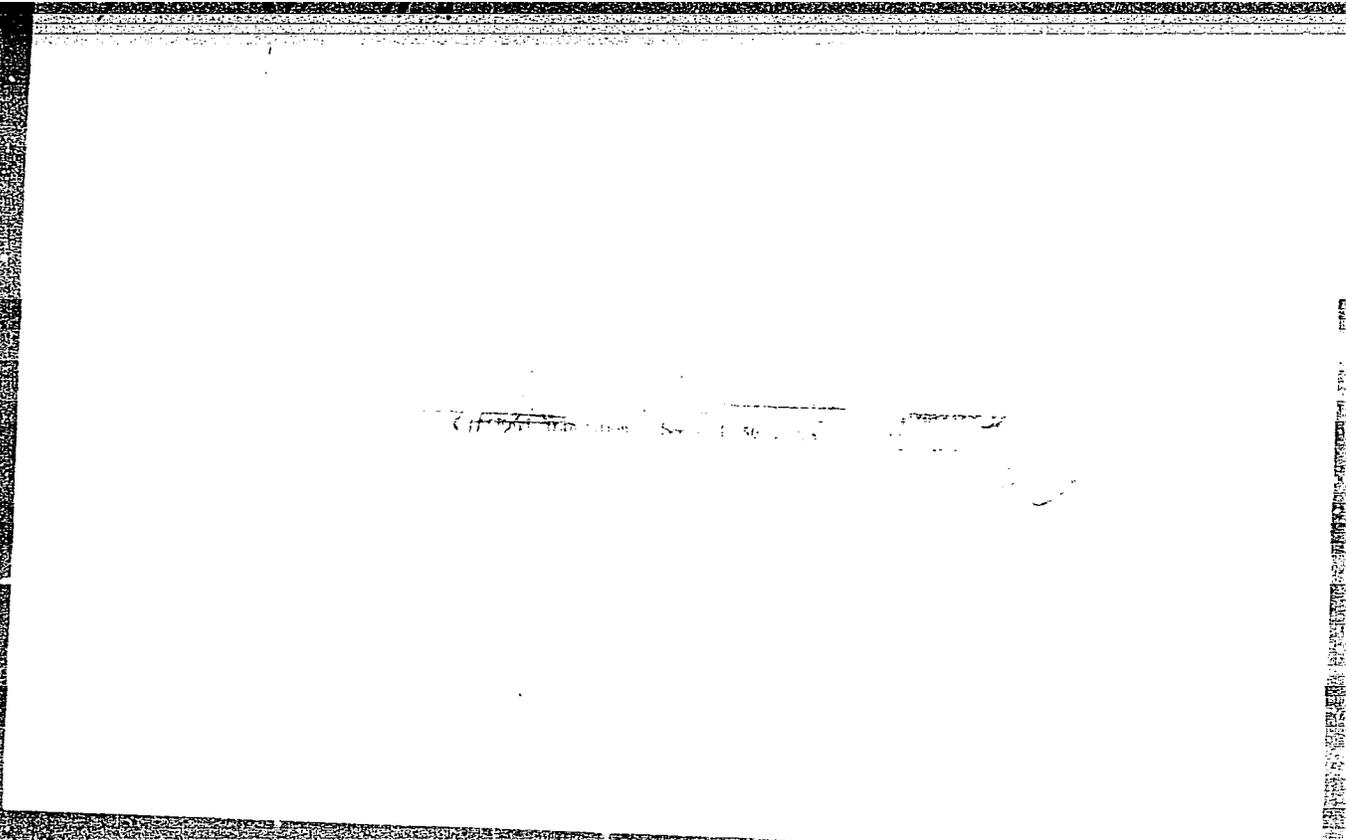
(MIRA 16:3)

(Technological innovations)

BYCHKOVA, N. A.

Dissertation: "Investigation by the Visual-Polythermic Method of Fluoride-Silicate Mutual Systems which Include Salts of Alkali and Alkali-Earth Metals." *Chem. Sci.*, Rostov-on-Don State U, Rostov-on-Don, 1953. (Referativnyy Zhurnal--Khimiya, Moscow, No 6, par 54)

SO: SUM 243, 19 Oct 1954



BYCH

The phenomenon of secondary periodicity in the alkaline earth group of elements. A. G. Bergman and N. A. Bychkova (State Univ., Rostov-on-Don). *Zhur. Obshch. Khim.* 10:1-3 (1955). This group is divided into two subgroups, (1) Ca and Ba, and (2) Mg and Sr, on the basis of their salt formation. With SiO_2 , Mg and Sr form only two types of silicates: MO-SiO_2 and 2MO-SiO_2 (M = metal). Ca and Ba each form these types plus 2 more. It is thought that the ionization potentials of the elements, as detg. periodicity, do not apply to silicates because of the complex bonds formed. With KCl, Ba and Ca each form only one double salt ($\text{MCl}_2 \cdot \text{KCl}$), while Mg and Sr each form two ($\text{MgCl}_2 \cdot \text{KCl}$, $\text{MgCl}_2 \cdot 2\text{KCl}$; $2\text{SrCl}_2 \cdot \text{KCl}$, $\text{SrCl}_2 \cdot 2\text{KCl}$). The reason for this is not clear. Malcolm Anderson

CH

M

①

Chloride The ternary reciprocal system of lithium and calcium
fluorides and silicates. A. G. Beigman and N. A. Byeb-
kova. *J. Gen. Chem. U.S.S.R.* 25, 1831-9 (1955) (Engl.
translation).--See *C.A.* 50, 0168z. *B. M. R.* *2.*

BYCH KOVA, N. A.

BYCHKOVA

USSR/ Chemistry - Analysis methods

Card 1/1 Pub. 22 - 23/49

Authors : Bergman, A. G.; Nesterova, A. K.; and Bychkova, N. A.

Title : Application of the visual-polythermal method to the study of silicate systems

Periodical : Dok. AN SSSR 101/3, 483-486, Mar 21, 1955

Abstract : Experimental material is presented proving the perfect applicability of the visual-polythermal method for the study of silicate systems, especially, well-crystallizing systems. The visual-polythermal system is considered inapplicable for the study of systems producing stable glass but it can be employed in determining the boundaries of stable zones of not easily detectable glass formation. The applications of the visual-polythermal method in plant laboratories are listed. Seven references: 3 USSR, 2 USA and 2 German (1909-1954). Graphs.

Institution : The V. M. Molotov State University, Rostov

Presented by : Academician G. G. Urazov, June 24, 1954

BYCHKOVA, N. A.

Category: USSR / Physical Chemistry
Thermodynamics. Thermochemistry. Equilibrium. Physico-
chemical analysis. Phase transitions.

B-8

Abs Jour: Referat Zhur-Khimiya, No 9, 1957, 29944

Author : Bychkova N. A., Bergman A. G.
Inst : not given
Title : Mutual System of Silicates and Fluorides of Lithium and Barium.

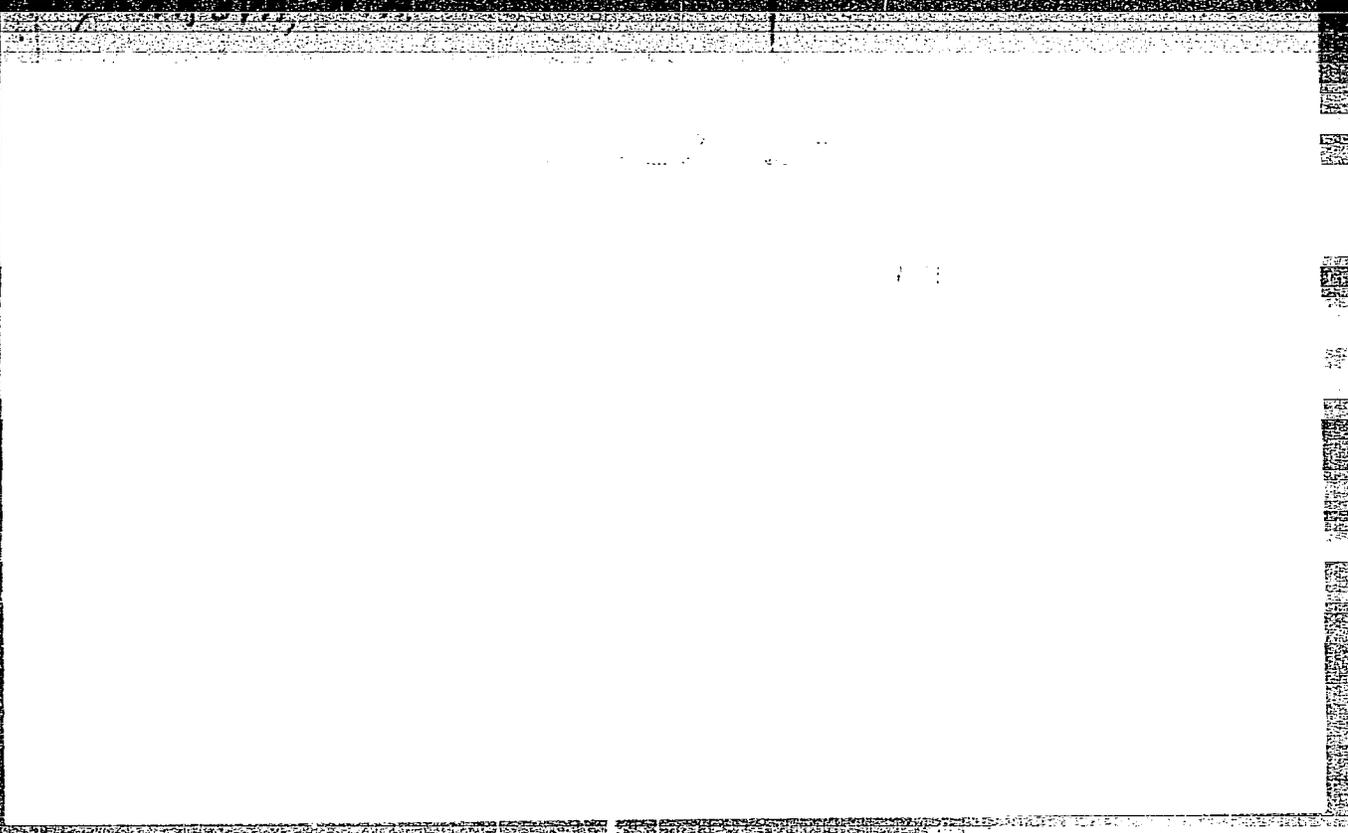
Orig Pub: Zh. obshch. khimii, 1956, 26, No 3, 639-651

Abstract: A study of the system $\text{Li, Ba} \parallel \text{F, SiO}_2$. Surface of crystallization consists of 11 fields, 3 eutectic, 5 non-variant transition points and one passage point. Most probable composition of the compounds are assumed to be $2\text{LiF} \cdot \text{Li}_2\text{SiO}_3 \cdot 5\text{BaF}_2$ and $2\text{BaF}_2 \cdot \text{Li}_2\text{SiO}_3 \cdot \text{BaSiO}_3$. Conditional thermal effect of exchange reaction, equal to 3.75 kcal-equivalent toward the $\text{BaF}_2 - \text{Li}_2\text{SiO}_3$ pair, does not determine the direction of the reaction because of the extensive complex-formation within the system. The visual-polythermal method is recommended for the study of silicate and silicate-salt systems.

Card : 1/1

-60-

Rostov-On-Don State Univ.



NORINA, A. Ye.; ROZHDESTVENSKAYA, O.A.; BYCHKOVA, N.A.

Utilization of the head fractions of hydrolyzates for the
cultivation of yeasts. *Gidroliz. i lesokhm. prom.* 17 no.4:
8-12 '64 (MIRA 17:7)

1. Tavdinskiy gidroliznyy zavod.

BYCHKOVA, N.

Who has corrected the Bessemer process? Izobr. i rats. no.7:
42-43 '63. (MIRA 16:9)
(Bessemer process—Technological innovations)

BYCHKOVA, N.

An obstinate instruction. Izobr. i rats. no.10:31 '63. (MIRA 17:2)

BYCHKOVA, N. F.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Gareyev, E.Z.		
Arakelyan, U.G.		
<u>Bychkova, N.F.</u>	"Michurinian Varieties of Fruit Trees in Kirgiziya"	Kirgiz Affiliate, Academy of Sciences USSR
Kolenko, A.Z.		
Lashin, M. I.		
Kuzema, V.G.		
Kryachkov, P.Ya.		

SO: W-30604, 7 July 1954

BYCHKOVA, N.F.

[Raising potatoes in Kirghizistan] Vyrashchivanie kartofelia v
Kirgizii. Frunze, Kirgizskoe gos. izd-vo, 1954. 28 p. (MLRA 10:2)
(Kirghizistan--Potatoes)

Bychkova, N. F.

USSR / Forestry. General Problems.

K-1

Abs Jour: Ref Zhur - Biologiya, No. 1, 1958, 1310

Author : Bychkova, N.

Title : The Forest Resources of the Mountainous Natural
Boundaries of Southern Kirgiziya

Orig Pub: S. kh. Kirgizii, 1957, No. 5, 41-43

Abstract; No abstract.

Card 1/1

MYLKO, S.N., kand.tekhn.nauk; BYCHKOVA, N.I.

Founding industry in the U.S.A. Mashinostroenie no.1:124-126
Ja-F '62. (MIRA 15:2)

(United States--Founding)

BYCHKOVA, N.M., inzh.; KACHALOV, A.A., slushatel'; VALUYKIN, G.G.,
slushatel'; KASHIN, V.T., slushatel'

Fire hazard indices of some liquids. Pozh. bezop. no.3:59-
63 '64. (MIRA 18:5)

SAUSHEV, V.S.; BYCHKOVA, N.M.; MARKOVSKIY, N.G.; KHOMENKO, M.S.

Temperature of ignition of high-molecular substances and their
heat of combustion. Pozh. bezop. no.4:87-90 '65.

(MIRA 19:1)

DEMIDOV, P.G.; BYCHKOVA, N.M.; STEPANOV, A.M.; UKHANEV, Yu.P.

Effect of the specific area and environment of wood on the
changes in its rate of combustion. Pozh. bezop. no.4:91-100
'65. (MIRA 19:1)

67210

SOV/58-59-7-16225

9.1300

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 7, p 229 (USSR)

AUTHORS: Detinko, V.N., Bychkova, N.P.

TITLE: Measurement of Damping in the Walls of Rectangular Waveguides

PERIODICAL: Tr. Sibirsk. fiz.-tekhn. in-ta, 1958, Nr 36, pp 405 - 408

ABSTRACT: The authors propose a method for measuring losses in waveguides. This method is based on the dependence of the resonance-curve width on the magnitude of losses in the resonator. The section of waveguide to be investigated is connected between a short-circuiting device and an adjustable diaphragm. By adjusting the piston and the diaphragm aperture, complete absorption of the energy transmitted through the diaphragm is achieved; this absorption is fixed by a measurement line. Moreover, by detuning the frequency of the oscillator, it is possible to determine the equivalent resistance of the losses with the aid of a formula supplied by the authors. Further simple manipulations permit one to single out the losses in the piston and diaphragm, as well as those in

Card 1/2

67210

Measurement of Damping in the Walls of Rectangular Waveguides *SOV/58-59-7-16225*

the waveguide. A detailed description is given of the experimental setup and of the measurement data, which agree with the results of similar measurements using other methods.

I.F. Dobrovol'skiy

4

Card 2/2

BYCHKVA, N. V.

"A new model instrument for microhardness research"

pp. 23 of the monograph "Microhardness", Acad. Sci, U.S.S.R.
1951

BYCHKOVA, N.V.; KOTYPEVA, L.S.; KUTYERINOV, A.P.

Determination of zirconium and tungsten simultaneously present
in high-melting compounds. Konstr. upograf. nat. no. 1:314-318
'64. (MIRA 17:11)

BYCHKOVA, O.

Dams - Chernovka River

On the Chernovka River. Mol. kolkh. 20, no. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

BYCHKOVA, O.I., dotsent; KOVAL', N.I., assistant

Successive conditions in children formerly ill with lambliasis
(vesicular and intestinal forms). Ped., akush. i gin. 23 no.3:
25-27 '61. (MIRA 15:4)

1. Kafedra propedevtiki detskikh bolezney Stalinskogo meditsinskogo
instituta (nauchnyy rukovoditel' - prof. M.B.Golomb [Holomb, M.B.]).
Detskaya klinicheskaya bol'nitsa (glavnyy vrach - N.P.Yukhno).
(GIARDIASIS)

BYCHKOVA, O.V., red.; ARANOVICH, V.G., tekhn. red.

[Initiators of the new in the seven-year plan] Zachi-
nateli novogo v semiletke. Moskva, Profizdat, 1962. 87 p.
(MIRA 17:3)

ZHOKIN, Aleksey Gavrilovich; BYCHKOVA, O.V., red.; KOROBOVA, N.D.,
tekhn. red.

[Training the trade-union activist group in an enterprise]
Obuchenie profsoiuznogo aktiva na predpriatii. Moskva,
Profizdat, 1963. 61 p. (Bibliotekha profsoiuznogo akti-
vista, no.24(72)) (MIRA 17:3)

IVANTISHIN, Mikhail Nikoaleyvich[Ivantyshyn, M.M.]; ZAYATS, Aelita Petrovna[Zaiets', A.P.]; KUTS, Vladimir Pavlovich; POVARENNYKH, O.S., prof., otv. red.; BYCHKOVA, R.I., red.; LUKASHENKO, T.Z., red.

[Accessory rare minerals and dispersed elements in metamorphic rocks of the Ukrainian crystalline shield] Aktsesorni ridskisi mineraly ta rozsiiani elementy v metamorfichnykh porodakh ukrains'koho krystalichnoho shchyta. Kyiv, Naukova dumka, 1965. 69 p. (MIRA 18:9)

PETKEVICH, Georgiy Ivanovich; VEMBITSKIY, Taras Zinov'yevich;
YEVSEYEV, S.V., doktor tekhn. nauk, otv. red.; BYCHKOVA,
K.I., red.

[Studying the elastic properties of porous geological media
containing liquids] Issledovaniye uprugikh svoystv poristykh
geologicheskikh sred, soderzhashchikh zhidkosti. Kiev,
Naukova dumka, 1965. 74 p. (MIR/ 18:9)

STENDER, V.V., *otv. red.*; ZOSIMOVICH, D.P., *zam. otv. red.*;
DELIMARSKIY, Yu.K., *red.*; LOSHKAREV, M.A., *red.*; NECHAYEVA,
N.Ye., *red.*; NIKIFOROV, A.F., *red.*; BYCHKOVA, R.I., *red.*

[Hydroelectrometallurgy of chlorides; reports] Gidroelektro-
metallurgiya khloridov; doklady. Kiev, Naukova dumka, 1964.
178 p. (MIRA 17:11)

1. Vsesoyuznyy seminar po prikladnoy elektrokhemii. 5th,
Dnepropetrovsk, 1962. 2. Dnepropetrovskiy khimiko-
tekhnologicheskii institut (for Stender).

GITMAN, Yevgeniya Borisovna; GOROSHCHENKO, Ya.G., doktor khim.
nauk, otv. red.; BYCHKOVA, R.I., red.

[Electrochemistry of titanium in fused salts; an annotated bibliography] Elektrokhemiiia titana v rasplavlen-nykh soliakh; annotirovannaiabibliografiia. Kiev, Naukova dumka, 1965. 96 p. (MIRA 18:3)

SEMENENKO, N.P., akademik, otv. red.; TKACHUK, L.G., doktor geol.-
miner. nauk, zam. otv. red.; VYALOV, O.S., red.; PORFIR'YEV
V.B., red.; SUBBOTIN, S.I., red.; LAZARENKO, Ye.K., red.;
BELEVTSEV, Ya.N., red.; POPOV, V.S., red.; SOLLOGUB, V.B.,
doktor geol.-miner. nauk, red.; CHEKHOVICH, N.Ya., red.;
BYCHKOVA, R.I., red.

[Materials of the Sixth Congress of the Carpatho-Balkan
Geological Association; reports of the Soviet geologists]
Materialy VI s"ezda Karpato-Balkanskoi geologicheskoi as-
sotsiatsii; doklady sovetskikh geologov. Kiev, Naukova
dumka, 1965. 461 p. (MIRA 18:10)

1. Karpato-Balkanskaya geologicheskaya assotsiatsiya. 6.s"yezd.
2. AN Ukr.SSR (for Semenenko). 3. Chlen-korrespondent AN Ukr.SSR
(for Lazarenko, Belevtsev, Popov).

KHARCHENKO, I.P., inzh.; BYCHKOVA, T.G., inzh., red.; BRONSHTEYN,
I.I., red.; BORUNOV, N.I., tekhn. red.

[Work experience of A.P.Iziumovs' and A.I.Prikazchik's
brigades at the Zmiyev construction sector of the Trust
for Heat and Power Installations] Opyt raboty brigad
A.F.Iziumova i A.I.Prikazchika na Zmievskom montazhnom
uchastke tresta "Teploenergmontazh." Moskva, Gosenergo-
izdat, 1962. 12 p. (MIRA 16:6)

1. Teploenergmontazh, Trust. Normativno-issledovatel'-
skaya stantsiya No.16.
(Zmiyev--Electric power plants)

L 22656-65 EPF(c)/EPR/EPA(s)-2/EWP(j)/ENT(m)/T Pc-A/Pr-A/PS-A/Pt-10 RM/
ACCESSION NR: AT5002136 WW/MLK B/0000/64/000/000/0267/0272

AUTHOR: Kalabina, A. V.; Grechkin, Ye. F.; Bychkova, T. I.; Filippova, A. Kh.;
Tyukavkina, N. A.; Yermakova, L. T.

TITLE: Synthesis of some new vinyl-aryl ethers and of their conversion products

SOURCE: AN SSSR. Institut nefiakhimicheskogo sinteza. Sintez i svoystva monomerov
(The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 267-272

TOPIC TAGS: vinyl aryl ether, aromatic ether, phenol derivative, diphenylpropane
derivative, diphenolpropane divinyl ether, polyether synthesis, boron trifluoride

ABSTRACT: Studies on the synthesis of vinylaryl ethers were expanded by the prepara-
tion of new ethers from substituted phenols and of their conversion products to obtain
highly reactive and readily polymerizing compounds. The compounds reacted to prepare
vinylaryl ethers included nitro-, chloro-, bromo-, chloronitro-, and ketophenols and
p, p'-dihydroxydiphenylpropane; the reaction products were purified by steam distillation
or recrystallization. Polymerization was mainly studied with diphenolpropane divinyl
ether. Its homopolymer, obtained at 50°C with boron trifluoride, contains an insoluble
fraction of crosslinked polymer; its copolymerization with large amounts of vinylphenyl
ether improves the thermal stability of the product markedly as compared with vinyl-

Card 1/2

L 22656-65
ACCESSION NR: AT5002136

2

phenyl ether homopolymer. Routes for producing di- and trichloroethyl-, and β -chloro- and β, β -dichloro- vinyl-aryl ethers are established. The reactions of vinylaryl ethers with phosphorus pentachloride produce esters and acid chlorides of β -aryloxyvinylphosphonic and thiophosphonic acids. Polymerisation of ethyl β -phenoxyvinylphosphonate gives a non-combustible polymer which does not melt at 350 C. Orig. art. has: 1 formula and 3 tables.

ASSOCIATION: None

SUBMITTED: 30 Jul 64

NO REF SOV: 013

ENCL 00

SUB CODE: CC, G

OTHER: 002

KALABINA, A.V.; BYCHKOVA, T.I.; MONDODOYEV, G.M.; VASIL'YEVA, N.N.

Synthesizing acetals of diatomic phenols. *Izv.Sib.otd.AN SSSR*
no.9:39-43 '58. (MIRA 11:11)

1. Irkutskiy gosudarstvennyy universitet im A.A. Zhdanova.
(Phenol condensation products) (Acetal)

BYCHKOVA, T. I.

PHASE I BOOK EXPLOITATION SOV/4893

Vsesoyuznoye soveshchaniye po fizike, fiziko-khimicheskim svoystvam ferritov i fizicheskim osnovam ikh prilozheniya. 38, Minsk, 1959 Ferrity; fizicheskiye i fiziko-khimicheskiye svoystva. Doklady (Ferrites; Physical and Physicochemical Properties. Reports) Minsk, Izd-vo AN BSSR, 1960. 655 p. Errata slip inserted. 4,000 copies printed.

Sponsoring Agency: Nauchnyy sovet po magnetizmu AN SSSR. Otdel fiziki tverdogo tela i poluprovodnikov AN BSSR.

Editorial Board: Resp. Ed.: M. N. Sirota, Academician of the Academy of Sciences BSSR; K. P. Belov, Professor; Ye. I. Kondorskiy, Professor; K. M. Polivanov, Professor; R. V. Telesin, Professor; G. A. Smolenskii, Professor; M. N. Shol'ta, Candidate of Physical and Mathematical Sciences; E. M. Smolyarenko and L. A. Bashkurov; Ed. of Publishing House: S. Kholysavskiy; Tech. Ed.: I. Vorobchanovich.

PURPOSE: This book is intended for physicists, physical chemists, radio electronics engineers, and technical personnel engaged in the production and use of ferromagnetic materials. It may also be used by students in advanced courses in radio electronics, physics, and physical chemistry.

COVERAGE: The book contains reports presented at the Third All-Union Conference on Ferrites held in Kiyev, Belorussia, USSR. The reports deal with magnetic transformations, electrical and galvanomagnetic properties of ferrites, studies of the growth of ferrite single crystals, problems in the chemical and physicochemical analysis of ferrites, studies of ferrites having rectangular hysteresis loops and multicomponent ferrite systems exhibiting spontaneous rectangularity, problems in magnetic attraction, highly coercive ferrites, magnetic spectroscopy, ferromagnetic resonance, magneto-optic, physical principles of magneto-optic devices in electrical circuits, anisotropy of electrical and magnetic properties of ferrites, the committee on ferrites, AS USSR (S. V. Yonovski, Chairman) and articles on ferrites. References accompany individual articles.

Ferrites (Cont.) SOV/4893

Sirota, M. N., and E. Z. Katnel'son. Temperature Dependence of the Magnetic Permeability of Nickel-Magnesium-Zinc Ferrites	242
Mishin, D. D., M. T. Plastun, and E. E. Adamovich. Temperature Magnetic Hysteresis in Nickel-Zinc Ferrites	249
Mishin, D. D., L. V. Nikonova, and T. I. Bychkova. The Effect of Omnidirectional Compression and Temperature on the Magnetostatic Properties of Nickel-Zinc Ferrites	253
Kozhukov, Ye. Z., and A. S. Mil'mer. Magnetic Anomalies of Iron and Cobalt Ferrites	258
Sirota, M. N., and E. Z. Katnel'son. On the Electrical Conductance of Nickel-Magnesium-Zinc Ferrites and its Temperature Dependence	263

Card 9/18

Card 4/18

S/048/61/025/012/016/022
B117/B104

AUTHORS: Mishin, D. D., Bychkova, T. I., and Smagin, V. A.

TITLE: Effect of magnetic field strength on the magnetic properties of cold-rolled electrotechnical steel in thermomagnetic treatment

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 25, no. 12, 1961, 1498 - 1502

TEXT: The effect of the magnetic field strength on the magnetization curve and on the hysteresis loop of cold-rolled crystallographically textured electrotechnical steel of the type Э310 (E310) was investigated. Ring-shaped samples 7 cm in diameter were used. They were produced from strips (23.3·0.05 cm) annealed for 5 hr at 1100°C in hydrogen. The ends of the samples were welded together. The strips were cut out longitudinally, transversely, and at an angle of 55° to the rolling direction. Thus, it was possible to investigate the magnetic properties in the tetragonal, digonal, and trigonal direction of the iron pseudomonocrystal with
Card 1/4

Effect of magnetic field strength ...

S/O48/61/025/012/016/022
B117/B104

3% of Si on the basis of a distinctly crystallographic texture. Thermal and thermomagnetic treatment was conducted on a special device which granted uniform heating in holding and cooling of samples in the neutral medium, argon. Conditions for thermomagnetic treatment: heating at 900°C, holding time 30 minutes, cooling to 700°C within 1 hour, holding time 1 hr, cooling at a rate of 70 degrees hr⁻¹ to 500°C, and cooling in switched-off furnace. The magnetic field with a frequency of 50 cps was switched at 700°C during the holding time, and switched off at 200°C. Magnetic field strengths in the individual treatments were 0.07, 0.5, 7.0, and 70 oersteds. Prior to measurements, the samples were demagnetized by an alternating field of 50 cps with an amplitude decreasing steadily to zero. Magnetization curve and hysteresis loop were measured by the ballistic method. The following was found: In fields up to 7 oersteds, hysteresis loop of tetragonal samples after the treatment described above becomes the narrower and the more rectangular, the higher the magnetic field strength was during treatment. Hysteresis loop practically remains unchanged when the field is altered during treatment from 7 to 70 oersteds. In digonal and trigonal samples, hysteresis loops after

Card 2/4

Effect of magnetic field strength ...

S/048/61/025/012/016/022

B117/B104

treatment are considerably changed in the field of 70 oersteds, and the rectangular shape increases very much. Increase of magnetic induction ΔB caused by the treatment takes place in weak and medium fields. $\Delta B(H)$ curves show a maximum in the range of maximum permeability. This increase in induction grows in tetragonal samples with an increase of magnetic field strength during treatment from 0.07 to 7 oersteds. If the field increases from 7 to 70 oersteds, however, the effect of treatment is changed only slightly. Magnetic induction decreases in the range of fields from 1 - 1.5 oersteds after TMB (i. e., $\Delta B < 0$). The magnetic characteristic most susceptible to the treatment is maximum permeability which increases considerably in all types of samples. The remanence of digonal and trigonal samples decreases considerably and that of tetragonal samples only slightly. Since permeability increases considerably by treatment of cold-rolled electrotechnical steel in weak and medium fields, this treatment can be successfully applied to electrotechnical parts for which the characteristics of operation are determined by the permeability of magnetic conductors in weak and medium fields. There are 6 figures, 1 table, and 11 references: 5 Soviet and 6 non-Soviet. The Card 3/4



Effect of magnetic field strength ...

S/048/61/025/012/016/022
B117/B104

four references to English-language publications read as follows:
Fiedler, H., Pry, R., J. Appl. Phys., Suppl., 30, 109 (1959); Heidenreich,
R., Nesbitt, E., Berbank, J. Appl. Phys., 30, no. 7, 955 (1959); Gertz M.,
J. Appl. Phys., 22, no. 7, 984 (1951); Bozorth R., J. Appl. Phys., 8,
575 (1937).

Card 4/4

IVANOV, N.A.; SVYAZHINA, I.A.; BYCHKOVA, T.I.

Magnetic properties and paleomagnetism of bauxites in the Severoural'sk
region. Trudy Inst.geol. UFAN SSSR no.64:97-107 '64.

(MIRA 17:12)

KALABINA, A.V.; KOLMAKOVA, E.F.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K.;
DENISEVICH, E.A.; SMOLINA, G.I.

Substituted vinyl and ethyl aryl ethers. Part 1: Reaction of
phenyl sulfenyl chloride with vinyl aryl ethers. Zhur. ob.
khim. 35 no.6:979-982 Ja '65. (MIRA 18:6)

1. Irkutskiy gosudarstvennyy universitet.

KALABINA, A.V.; BYCHKOVA, T.I.; MAKSYUTIN, Yu.K.

Synthesis and transformations of halo-substituted vinyl aryl
ethers. Part 1: Cis- and trans- β -chlorovinyl aryl ethers.
Zhur. org. khim. 1 no.8:1406-1411 Ag '65. (MIRA 18:11)

1. Irkutskiy gosudarstvennyy universitet.

L 21762-66 EWP(j)/EWT(m)/T JAJ/RM

ACC NR: AP6012648

SOURCE CODE: UR/0079/65/035/002/0338/0343

AUTHOR: Kalabina, A. V.; Myn-in', Iyu; Asalkhayeva, L. D.; Bychkova, T. I.

31
B

ORG: Irkutsk State University (Irkutskiy gosudarstvennyy universitet)

TITLE: ¹⁹⁶⁵ Synthesis of certain O, O-dialkyl-S-(alpha - aryloxy- beta -chloro-ethyl) dithiophosphates and O, O-dialkyl (diphenyl)-S-(alpha -aryloxy- gamma, gamma, gamma - trichloropropyl) dithiophosphates

SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 338-343

TOPIC TAGS: organic synthetic process, ester, ammonium salt, organic phosphorous compound, isomer

ABSTRACT: The reaction of α, β -dichloroethylaryl esters with ammonium salts of dialkyldithiophosphoric acid was studied and the new O, O-dialkyl-S-(α - aryloxy- β -chloroethyl) dithiophosphates were synthesized. A study was made of the addition of diethyldithiophosphoric acid to the cis- and trans-isomers of the β -chlorovinylphenyl ester. A reaction scheme is proposed. The addition of carbon tetrachloride to vinylaryl esters was investigated and two $\alpha, \gamma, \gamma, \gamma$ -tetrachloropropylaryl esters not described in the literature were synthesized. The reaction of $\alpha, \gamma, \gamma, \gamma$ -tetrachloropropylaryl esters with ammonium salts of dialkyl (diphenol) dithiophosphoric acids was studied and five new dialkyl (diphenyl)- S-(α -aryloxy- γ, γ, γ -trichloropropylethyl) dithiophosphate were obtained. Orig. art. has: 5 formulas and 3 tables. [JPRS]

SUB CODE: 97 / SUEM DATE: 11Dec63 / ORIG REF: 016
Card 1/1 PB UDC: 547.371+546.185+546.222.2

2

MAMEDOV, A.M.; BYCHKOVA, T.V.; GILOVYAN, V.A.

Determining the optimal disbursement of a demulsifier from the
data of an investigation of compressor wells. Nefteprom. delo
no.10:37-40 '64. (MIRA 17:12)

1. Neftepromyslovoye upravleniye "Ordzhonikidzeneft".

BYCHKOVA, V.

The machine accounting center of our office. Den. 1. Kred 21 no.5:
76-77 My '63. (MIRA 16:5)

1. Starshiy inspektor mashinoschetnogo byuro Kokchetavskoy oblastnoy
kontory Gosbanka.

(Kokchetav--Banks and banking--Accounting)
(Machine accounting)

L 31920-66 EWT(m)/EWP(j)/T IJP(c) RM
ACC NR: AF6007971 (A)

SOURCE CODE: UR/0191/66/000/003/0054/0057

6

AUTHOR: Fotokhina, Ye. S.; Moldavskiy, B. L.; Molotkov, R. V.; Batalin, O. Ye.;
Buslovich, Ye. Ya.; Rubinsteyn, E. I.; Ravkina, A. E.; Khanukova, E. S.; Slo-
bina, A. V.; Lykova, T. A.; Bychkova, V. A.

40
15

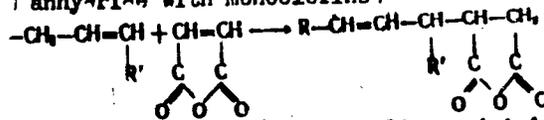
ORG: none

TITLE: Alkenylsuccinic acid anhydrides as hardening agents for epoxy resins

SCOURCE: Plasticheskiye massy, no. 3, 1966, 54-57

TOPIC TAGS: epoxy plastic, hardening, solid mechanical property

ABSTRACT: The authors studied the synthesis and use of alkenylsuccinic acid anhydrides as liquid and low-toxic hardening agents for epoxy resins. The anhydrides were synthesized in an electrically heated steel autoclave with a mixing device by the reaction of maleic anhydride with monoolefins:



The following anhydrides were prepared: (acid, boiling point in C, at pressure in mm)
crotylsuccinic, 122-147, 8; pentenylsuccinic, 135-148, 8; heptenylsuccinic, 124-210,

Card 1/2

UTC: 678.643'42'5:678.043

L 31920-66

ACC NR: AP6007971

5; and a mixture of isoctenyl- and isononenylsuccinic (ASA), 155-169, 8. Epoxy resins ED-5, ED-6, and EDL were hardened by ASA at 140C for 24 hr, using 93-115, 73-93- and 47-57 g of ASA over 100 g of epoxy resins respectively. Using dimethyl-aniline or triethanolamine as the accelerators, the hardening process was accomplished within 1.5-2 hr at 100C. With the exception of thermal stability, which was 25-35C lower, the physicochemical properties of the products obtained resemble very closely those obtained by the use of malic anhydride as the hardening agent. Orig. art. has: 6 tables, 4 fig., and 1 formula. 2

SUB CODE: 11,07/ SUBM DATE: none/ ORIG REF: 004/ JTH REF: 003

Card 2/2

L 16374-65 EWT(m)/EPF(c)/EWP(j)/T Pa-4/Pr-4 ASD(m)-3 RM

ACCESSION NR: AP4009149

S/0190/64/006/011/1955/1958

AUTHOR: Paleyev, G. A.; Kocheshkov, K. A.; Kargin, V. A.; Sogolova, T. I.;
Vy*chkova, V. F. B

TITLE: Effect of the degree of dispersion of the organometallic component of a mixed catalyst on the polymerization of ethylene

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 11, 1964, 1955-1958

TOPIC TAGS: polyethylene, polymerization catalyst, organometallic catalyst, hexane, phenyl lithium, butyl lithium, ethyl lithium, mixed catalyst, catalyst particle size, ethylene polymerization

ABSTRACT: The dependence of the polymerization and properties of polyethylene on the chemical composition and degree of dispersion of the organometallic component of the mixed catalyst was investigated. The mixed catalyst was prepared in the same manner in all cases: ethylene-saturated n-hexane; ratio of RLi:TiCl₄=1:1, careful stirring, temperature of -60 to -70C. The solid organometallic component C₆H₅Li of varying particle size was prepared by the double decomposition of C₆H₅Br and alkyl-Li in various media. The degree of dispersion was estimated by visual observation under the microscope and also

Card 1/3

L 16374-65

ACCESSION NR: AP4049149

by comparing the infrared spectra of pure crystalline compounds. The micrographs showing the spherulitic structure of polyethylene indicate that the polymer reflects, to a certain extent, the form of the undissolved crystallites of the organometallic component. The difference in the size of the polyethylene spherulites is not greater than 1.6:1 according to the type of phenyl-Li used, and this does not affect the mechanical properties. The rate of ethylene absorption (maximum at 0-30C) and the yield of polymer (maximum = 2500 g/g equiv. with phenyl-Li made from bromobenzene and n-butyl lithium in hexane) were found to be directly related to the dispersion of the organometallic compound in the medium. The infrared spectra of phenyl-lithium samples (four types) showed almost complete identity. The intensity of the band varied slightly only over the range 900-1100 cm^{-1} , due usually to the deformation oscillation of the C-H bonds in the monosubstituted benzene depending on the method of preparation. Although this variation in intensity is not great, on the basis of it a difference in the packing and structure of the crystals can be assumed, which limits the movement of the C-H group in the molecule. The mechanical properties of polyethylene do not depend on the dispersion of the catalyst component, but do depend on the chemical composition of the catalyst. "The authors express their gratitude to T. V. Talalayeva and A. N. Rodinov for their valuable suggestions and assistance in this work." Orig. art. has 4 figures and 1 table.

Card

2/3

L 16374-65

ACCESSION NR: AP4049149

ASSOCIATION: Fiziko-khimicheskiy Institut im. L. Ya. Karpova (Physicochemical
institute)

SUBMITTED: 28Dec63

ENCL: 00

SUB CODE: OC, *LC*

NO REF SOV: 008

OTHER: 000

Card 3/3

BYCHKOVA, V.I.

Effect of phthalazole on some biochemical processes in the
large intestine. Vrach. delo no.8:24-26 Ag '61. (MIRA 15:3)

1. Kafedra detskikh infektsionnykh bolezney Dnepropetrovskogo
meditsinskogo instituta. Nauchnyy rukovoditel' - dotsent
Ye.G. Popkova.

(~~PHTHALANILIC ACID~~)
(INTESTINES---BACTERIOLOGY)

E

USSR/Virology. Viruses of Man and Animals

Abstr Jour : Ref Zhur-Biol., No 13, 1958, 57379

Author : Strigin V. A., Bychkova M. M., Veselova A. P., Golovina A. F., Zaynutdinova L. Kh., Lagno N. M., Leshok Z. T., Prutkovskaya N. T., Sudakova F. S.

Inst : Ufa Scientific-Research Institute of Vaccines and Sera

Title : Experimental Study of the Epidemiological Effectiveness of Antiinfluenza Vaccination

Orig Pub : Tr. Ufimsk. n.-i. in-ta vaktsin i syvorotok, 1957, vyp. 4, 205-209

Abstract : Five thousand nine hundred twenty-three persons were vaccinated with dry live vaccine ("SK") of the Moscow Scientific-Research Institute of Vaccines and Sera imeni Mechnikov (4559 in the non-vaccinated group). The vaccine lowered disease

Card 1/2

BYCHKOVA, V.V.
KUNTSMAN, Ye.S.; SEKUNOVA, V.N.; BYCHKOVA, V.V.

Use of type antigens in making a serological diagnosis of dysentery
in children. Zhur.mikrobiol.epid. i immun., supplement for 1956:15-16
'57 (MIRA 11:3)

1. Iz Leningradskoy detskoy infektsionnoy bol'nitsy imeni Filatova
i Instituta vaktsin i syvorotok.
(DYSENTERY) (ANTIGENS AND ANTIBODIES)

Бичкова, В.В.

SEKUNOVA, V.N.; BICHKOVA, V.V.

Antigenic properties of Leningrad dysentery cultures not typed with diagnostic sera. Zhur.mikrobiol.epid. i immun. 28 no.8:42 Ag '57.
(MIRA 11:2)

1. Iz 1-go Leningradskogo meditsinskogo instituta imeni I.P.Favlova i laboratorii Bol'nitsy imeni Filatova.

(DYSENTERY, BACILLARY, microbiology,

antigenic properties of cultures not typed with sera isolated in Leningrad (Rus))

TSVETKOV, V.N.; BYCHKOVA, V.Ye.; SAVVON, S.M.; NEKRASOV, I.K.

Intramolecular interaction and segment anisotropy of chain molecules
in solution. Vysokom. soed. 1 no.9:1407-1415 S '59.
(MIRA 13:3)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR i Leningradskiy
gosudarstvennyy universitet im. A.A. Zhdanova.
(Macromolecular compounds) (Propene) (Styrene)

FRISMAN, E.V.; GARMONOVA, T.I.; BYCHKOVA, V.Ye.

Dynamic birefringence of low molecular fractions of polystyrol
dissolved in butanone. Part 2. Zhur.tekh.fiz. 29 no.2:207-
211 F '59. (MIRA 12:4)

1. Leningradskiy gosudarstvennyy universitet im. A.A.Zhdanova.
(Styrene--Optical properties)

TSVETKOV, V.N.; BYCHKOVA, V.Ye.

Effect of side radicals on the optical anisotropy and shape of
macromolecules in solution. Vysokom. soed. 6 no.4:600-604 Ap '64.
(MIRA 17:6)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

ACC NR: AP6034384 (N) . SOURCE CODE: UR/0402/66/000/005/0564/0570

AUTHOR: Vanag, K. A.; Malinovskaya, V. V.; Bychkova, Ye. K.

ORG: Institute of Virology im. D. I. Ivanovskiy, AMN SSSR, Moscow
(Institut virusologii AMN SSSR)

TITLE: Dynamics of changes in nonspecific phosphatases in the central nervous system of white mice infected with an acute human encephalomyelitis virus

SOURCE: Voprosy virusologii, no. 5, 1966, 564-570

TOPIC TAGS: central nervous system, cerebellum, animal experiment, ribonucleic acid, virus disease, enzyme activity

ABSTRACT: The dynamics of changes in brain tissue phosphatases in mice infected with acute human encephalomyelitis virus (Reznik strain) were studied. A histochemical study of the cerebellum (large neurons) and hippocampus (Purkinje cells) of experimental animals showed the following changes in cytoplasm as encephalomyelitis infection developed: 1) the activity of acid phosphatase was intensified; 2) the intensity of the alkaline phosphatase reaction decreased; and 3) the RNA reaction decreased sharply in intensity. Orig. art. has: 2 figures. [W.A. 50]

SUB CODE: 06/ SUBM DATE: 09Dec65/ ORIG REF: 004/ OTH REF: 028
Card 1/1 UDC: 616.988.25-092.9-07:616.831-008.931:577.153.3

BYCHKOVA, Ye.Kh.; BIBILO, Yu.O.; MALYANOV, A.P., red.

[Soils of the southeastern part of the European S.S.S.R.; a bibliography] Pochvy IUGo-Vostoka Evropeiskoi chasti SSSR; bibliograficheski ukazatel'. Saratov, 1959. 250 p. (MIRA 13:7)
(Bibliografiia Saratovskoi oblasti, no.4).

1. Saratov. Universitet. Nauchnaya biblioteka.
(Bibliography--Soils)

BYCHKOVA, Ye. M.

USSR/Chemical Technology. Chemical Products and Their Application -- Wood chemistry products. Cellulose and its manufacture. Paper, I-23

Abst Journal: Referat Zhur - Khimiya, No 2, 1957, 6250

Author: Konkin, A. A., Yashunskaya, A. G., Bychkova, Ye. M.

Institution: All-Union Scientific Research Institute of Synthetic Fibers

Title: Effect of Concentration of Polysaccharides in Solution on the Rate of Their Hydrolysis

Original

Publication: Nauch.-issled. tr. Vses. n.-i. in-ta iskusstv. volokna, 1955, No 2, 8-11

Abstract: Determined were the rate of hydrolysis constants of methyl-cellulose (I), amylose (II) and lactose (III), on hydrolysis with a H_2SO_4 solution, at different concentrations of these substances in solution. Changes in concentration of I, II and III, in solution, have a relatively slight effect on the hydrolysis rate of the above-stated substances. On an increase of the concentration by 30 times the hydrolysis rate of I is decreased by 2.1 times, that of II by 1.6 times and that of III by 1.7 times.

Card 1/1

UR/0286/64/000/014/0091/0091

B

ACCESSION NR: AP5010290

AUTHOR: Shkundin, B. M.; Bychkova, Ye. M.; Freydin, V. M.

TITLE: Hydraulic feeding device for supplying powdered materials into the main pipelines of hydraulic transportation installations. Class 81, No. 164232

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 91

TOPIC TAGS: hydraulic equipment, hydraulic engineering

Translation: 1. A hydraulic feeding device for supplying powdered materials to the main pipelines of hydraulic transportation installations. The device includes a chamber which has devices for sealing it off at the top and bottom, a pipe branch for feeding water into it and a discharge line which feeds the material into the main pipeline. In order to control the rate at which the material is discharged from the chamber, an inclined chute with a vibrator is mounted on elastic supports on the bottom of the chamber. 2. A hydraulic feeding device of this description in which a hydraulic sorter of the countercurrent type is mounted above the upper lock of the chamber in order to concentrate the water according to grain size when the chamber is being loaded.

ACCESSION NR: AP5010290

UR/0286/64/000/014/0091/0091

AUTHOR: Shkundin, B. M.; Rychkova, Is. M.; Freydin, V. M.

TITLE: Hydraulic feeding device for supplying powdered materials into the main pipelines of hydraulic transportation installations. Class 81, No. 164232

SOURCE: Izulleten' izobreteniy i tovarnykh znakov, no. 14, 1964, 91

TOPIC TAGS: hydraulic equipment, hydraulic engineering

Translation: 1. A hydraulic feeding device for supplying powdered materials to the main pipelines of hydraulic transportation installations. The device includes a chamber which has devices for sealing it off at the top and bottom, a pipe branch for feeding water into it and a discharge line which feeds the material into the main pipeline. In order to control the rate at which the material is discharged from the chamber, an inclined chute with a vibrator is mounted on elastic supports on the bottom of the chamber. 2. A hydraulic feeding device of this description in which a hydraulic sorter of the countercurrent type is mounted above the upper lock of the chamber in order to concentrate the material according to grain size when the chamber is being loaded.

Card 1/2

ACCESSION NR: AP5010290

ASSOCIATION: Vsesoyuznyy ordena Lenina proyektno-izyskatel'skiy i nauchno-issledovatel'skiy institut "Gidroproyekt" imeni S. Ya. Zhuk (All-Union Order of Lenin Preliminary Study, Design and Scientific Research Institute "Gidroproyekt")

SUBMITTED: 13Aug63

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

JPES

Card

2/2

BYCHKOVA, Ye. N.

"Experimental Data on the Study of the Etiology of Influenza in Newborn Infants." Sub 13 Dec 51, Acad Med Sci USSR.

Dissertations presented for science and engineering degrees in Moscow during 1951. (CAND. MEDICAL SCI.)

SO: Sum. No. 480, 9 May 55.

BYCHKOVA, Ye. N. and ZEYTLNOK, N. A.

"The Development of a Methodical Approach to the Study of Corticovascular Regulation of Immunobiological Reactions Against the Influenza Virus," Problema Grippa i Ostrykh Katarrov Verkhnikh Dykhavel'nykh Putey, Moscow, pp. 42-44, 1952

BYCHKOVA, Ye. N.

ZETLENOK, N.A.; BYCHKOVA, Ye.N.

Role of the higher nervous function in infection and immunity.
Zhur. vys. nerv. deiat. 4 no.2:267-281 Mr-Apr '54. (MLRA 7:10)

1. Institut virusologii im. D.I.Ivanovskogo AMN SSSR.
(INFLUENZA, immunology,
antibodies, conditioned immun. reaction)
(REFLEX, CONDITIONED,
prod. of immun. conditioned reaction to influenza
antibodies)
(ANTIGENS AND ANTIBODIES,
influenza antibodies, prod. of immun. conditioned reaction)

Translation M-729, 25 Aug 55

BYCHKOVA, Ye. N.

Ye. N. Bychkova and A. S. Gorbunova, "Methodical Manual on Fighting Influenza"
Library of the Sanitary Inspector and Epidemiologist, Moscow, 1956, by the
State Publishing House for Medical Literature.

This booklet contains a brief study of various cases of influenza, their diagnosis, prophylaxis and treatment.

SO: D527188

SHUBLADZE, A.E.; BYCHKOVA, Ye.N.; ANAN'YEV, V.A.

Egg (embryonic) vaccine for the prevention of spring-summer (tick-borne) encephalitis. Zhur. mikrobiol. epidy i immun. 29 no.10:102-(MIRA 11:12) 109 0 '58.

1. Iz Instituta virusologii imeni Ivanskogo AMN SSSR.
(ENCEPHALITIS EPIDEMIC, immunol.
Russian tick-borne, egg vaccine (Rus))

SHUBLADZE, A.K.; GAYDAMOVICH, S.Ya.; BYCHKOVA, Ye.N.; OBUKHOVA, V.R.

Virus of acute encephalomyelitis (OEM) in man and its relation
to multiple sclerosis. Vest. AMN SSSR 14 no.10:13-17 '59.

(MIRA 13:6)

1. Institut virusologii imeni D.I. Ivanovskogo MAN SSSR.
(ENCEPHALOMYELITIS) (MULTIPLE SCLEROSIS)

17(2)

SOV/16-60-2-2/35

AUTHORS: Shubladze, A.K., Bychkova, Ye.N.

TITLE: An Experimental Study of Tissue Vaccine for the Prophylaxis of Tick-Borne Encephalitis

PERIODICAL: Zhurnal mikrobiologii, epidemiologii i immunobiologii, 1960, Nr 2, pp 8 - 13 (USSR)

ABSTRACT: In recent years P.S. Andonov, A.K. Shubladze, Ye.N. Levkovich and G.D. Zasukhina have shown that viral tissue cultures can be effectively prepared, which has prepared the way for an improvement in vaccine against spring-summer tick borne encephalitis. The present article lists the results of experiments which prove the efficacy of vaccine prepared from virus cultured on chick embryo fibroblasts. The virus was cultured on skin-muscle tissue from the embryo and an effective method of inactivating the virus with formalin was developed. The vaccine was tested for immunogenicity on mice, inducing an immunity ranging from 100 to 100,000 Units. The virus-neutralizing antibodies in the serum reached titers of 1,000 and more. The vaccine was also tested on human volunteers and proved to be quite non-reactive. Triple inoculation induced deep immunity, as was shown by the gradual rise in

Card 1/2

SOV/16-60-2-2/35

An Experimental Study of Tissue Vaccine for the Prophylaxis of Tick-Borne Encephalitis

the virus-neutralizing antibody titer in the blood serum. The vaccine can thus be recommended for the prophylaxis of tick-borne encephalitis. After storage of the vaccine for 4 months at 4°C the vaccine showed no change in its immunogenicity and the neutralization index stood at 354,800. There are: 8 tables and 4 Soviet references.

ASSOCIATION: Institut virusologii imeni Ivanovskogo AMN SSSR (Institute of Virology imeni Ivanovskiy of the AMN, USSR)

SUEMITTED: July 20, 1959

Card 2/2

IZMAYLOVA, Ye.F.; KURALEVA, V.V.; ZHILYAYEVA, R.V.; BYCHKOVA, Ye.N.;
MERING, L.G.

Use of serum polyglobulin in some complications in patients
with leukemia. Vrach. delo no.10:76-80 0 '63.

(MIRA 17:2)

1. Laboratoriya krovozameniteley 9 preparatov krovi (zav. -
prof. L.G. Bogomolova) i gematologicheskaya klinika (rukovo-
ditel' - prof. S.I. Sherman) Leningradskogo instituta pereli-
vaniya krovi. Nauchnyy rukovoditel' - zasluzhennyy deyatel'
nauki, chlen-korrespondent AMN SSSR, prof. A.N. Filatov.

BYCHKOVA, Ye.N.

Viruses isolated from encephalomyelitis and multiple sclerosis patients.
Report No.1: Pathogenic and antigenic properties of the isolated viruses.
Vop. virus. 9 no.2:173-178 Mr-Ap '64. (MIRA 17:12)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

TERSKIKH, I.I.; BYCHKOVA, Ye.N.; DANILOV, A.I.; GROMYKO, A.I.; BEKLESHOVA, A.Yu.

Aerosol vaccination against tick-borne encephalitis. Vop. virus. 10
no.3:359-360 My-Je '65. (MIRA 18:7)

1. Institut virusologii imeni Ivanovskogo AMN SSSR, Moskva.

SHAKHNOVICH, R.A.; BYCHKOVA, Ye.N.; KARASIN, B.Z.

Viral etiology of acute primary infectious polyradiculoneuritis.
Zhur. nevr. i psikh. 65 no.11:1658-1658 '65.

(MIRA 18:11)

1. Nevrologicheskaya shkola 17-oy gorodskoy klinicheskoy
bol'nitsy (zaveduyushchiy B.Z. Karasin, glavnyy vrach F.S.
Petrushko) i Institut virusov gl' AMN SSSR, laboratoriya
sravnitel'noy virusologii (zaveduyushchiy - prof. A.K. Shubladze),
Moskva.

KRASOVSKIY, Sergey Sergeevich; SUBBOTIN, S.I., akademik, otv.
red.; BYCHKOVA, R.I., red.; SHARAY, N.Ya., red.

[Methods of extending geophysical studies in geological
mapping; as revealed by a study made in the Azov crystal-
line massiv and its conjugated zone with the Donets Basin]
Metodika kompleksirovaniia geofizicheskikh issledovaniï pri
geologicheskomo kartirovaniï; na primere Priazovskogo kri-
stallicheskogo massivã i zony sochleneniia ego s Donbassom.
Kiev, Naukova dumka, 1965. 142 p. (MIRA 18:12)

1. Akademiya nauk Ukr.SSR (for Subbotin).

KORNEV, K.A., doktor khim. nauk, glav. red.; BYCHKOVA, R.I., red.

[Modification of the properties of polymers and polymeric materials] Modifikatsiia svoistv polimerov i polimernykh materialov; Kiev, Naukova dumka, 1965. 150 p.
(MIRA 19:1)

1. Akademiya nauk URSR, Kiev.

BYCHKOVA, Y.Ye.; VLASOV, Yu.I.; TSVETKOV, V.N.

Diagnosis of viruses with asymmetrical particle forms by the
method of birefringence in the stream. Trudy VIZR no.21:
57-61 '64. (MIRA 18:12)

BYCHKOVA, Ye.N.; SHEN, R.M.; VANAG, A.I.

Viruses isolated from patients with encephalomyelitis and multiple sclerosis. Report No.2. Study of the pathomorphology of experimental infection. Vop. virus. 10 no.5:595-601 S.S. '65.

(MIRA 18:11)

1. Institut virusologii imeni D.I.Ivanovskogo AMN SSSR, Moskva.

BYCHKOVA, Z.

So that it would be interesting. Sov. profsciuzy 17 no.15:18-19
Ag '61. (MIRA 14:7)

1. Predsedatel' tsekhovogo komiteta Novo-Noginskoy tkatsko-
otdelochnoy fabriki.
(Noginsk--Workingmen's clubs)

Timiryazev.

COUNTRY : USSR
CATEGORY :

M-5

ABS. JOUR. : RZBiol., No. 19 1958, No. 87082

AUTHOR : Bychkova, Z. I.

INST. :

TITLE : Growing of Cucumbers with Screening and Under Polyamide Sheeting.

ORIG. PUB. : Sad 1 ogorod, 1958, No 3, 23-25

ABSTRACT : In 1957, at the experiment farm "Belogorka" of the Northwestern Agricultural Scientific Research Institute, cucumbers were grown with rye screening, and without screening under temporary cover of transparent polyamide sheeting. Rye was planted in September, in strips 1 m wide, spaced 5.5 m apart. Cucumbers of the Vyaznikovskiye variety were planted by seedage and as seedlings, in beds. Polyamide sheeting was used to cover cucumbers immediately after planting of seeds. The cover was left in position for 32 days. Under the sheeting, soil temperature was 2.6-3° higher and moisture content 10-12% higher than in the controls; between the screens
CARD: 1/2

Country	:	USSR	
CATEGORY	:		M-5
ABS. JOUR.	:	RZBiol., No. 19, 1958, No. 87082	
AUTHOR	:		
INST.	:		
TITLE	:		
ORIG. PUB.	:		
ABSTRACT	:	these values were 1-2° and 4-5%. Cucumbers grown under temporary cover of sheeting started to yield 8-17 days earlier, those grown with screening -- 5-8 days earlier than the controls. Recomputed on the basis of one hectare, the controls yielded 48.7 centners (seed planting) and 122 centners (from seedlings); under cover, 955 and 556 centners/hectare, respectively; and with screening 273 and 168 centners/hectare. -- Ye. A. Okorokova.	
CARD:	:	2/2	

BYCHKOVA, Z.I.; DADYKO, E.A.

Importance of the microclimate in raising cucumbers. Meteor. i
gidrol. no.11:43-45 N '62. (MIRA 15:12)

1. Severo-zapadnyy nauchno-issledovatel'skiy institut sel'skogo
khozyaystva i Agrometeorologicheskaya stantsiya Belogorka.
(Cucumbers) (Crops and climate)

USSR/Weeds and Weed Control

ii

Abstr Jour : Ref Zhur - Biol., No 9, 1958, No 39616

Author : Bychkova E.I.

Inst : AS LatvSSR

Title : Chemical Methods of Weed Control in Flax Sowings.

Orig Pub : Sb. tr. po zashchite rast., Riga, AN LatvSSR, 1956, 247-252

Abstract : Of all the herbicides, such as DNOK, DWIIF, sodium and triethanolamine salts of 2,4-D, sodium salt 2M-4X and IEMK, tested in field experiments, conducted at the experimental station of the Institute of Flax of the Kalininsya oblast in 1950-1955 and at the Byelorussian flax experimental station in the Molodechno oblast, only preparation 2M-4X appeared suitable for the chemical weeding of flax. The flax was treated twice with this herbicide. This treatment sharply diminished the quantity of most of annual weeds. It also brought about a sizeable decrease in the contamination caused by rust and fusariosis, and it increased the yield of flax. -- N.N. Sokolov

Card : 1/1

LASKINA, Ye.D.; DEVITSKAYA, T.A.; BYCHKOVA, Z.N.; SHILINA, R.F.;
SUKHCRUKOVA, T.V.

Preparation of heliotropin from the methylene ether of
pyrocatechin and formaldehyde with the use of γ -nitrobenzene-
sulfonic acid. Trudy VNIISNDV no.5:21-25 '61. (MIRA 14:10)
(Piperonal)

LASKINA, Ye.D.; SIMANOVSKAYA, E.A.; BELOV, V.N.; BYCHKOVA, Z.N.;
SHILINA, R.F.; YEMEL'YANENKO, Z.T.; MIKHAYLOVA, Z.V.

Intermediate products of the synthesis of odorous substances.
Report No.10: Preparation of guaiacol, guäthol, veratrole, and
o-diethoxybenzene from pyrocatechin. Trudy VNIISNDV no.5:25-30
'61. (MIRA 14:10)

(Piperonal)

BOGACHEVA, K.I.; BYCHKOVA, Z.N.; SHILINA, R.F.; YAKUSHEVA, Ye.F.;
GRIGOR'YEVA, Ye.F.

Better methods for manufacturing pseudoionone. Trudy VNIISNDV
no.5:112-113 '61. (MIRA 14:10)

(Pseudoionone)

BYCHKOVA, Z.N., inzh.; AGARYSHEVA, Z.I., inzh.; SHVAREV, N.M., inzh.;
SEMENOV, V.P., inzh.

Vacuum rectification of lactones. Masl.-zhir. prom. 27 no.9:27-
29 S '61. (MIRA 14:11)

1. Kaluzhskiy kombinat sinteticheskikh dushistykh veshchestv.
(Lactones)

1. ARCHAKOVA, Z. N.
ACCESSION NR: AT4037660

S/2981/64/000/003/0194/0200

AUTHOR: Fridlyander, I. N.; Romanova, O. A.; Archakova, Z. N.; Gur'yev, I. I.;
Dronova, N. P.; Petrova, A. A.; By*chkova, Z. S.

TITLE: Preparation and testing of intermediate shapes from high-strength heat
resistant aluminum alloy VAD23

SOURCE: Alyuminiyevy*ye splavy*, no. 3, 1964. Deformiruyemy*ye splavy* (Malleable
alloys), 194-200

TOPIC TAGS: aluminum alloy, alloy VAD23, heat resistant aluminum alloy, high strength
aluminum alloy, alloy mechanical property, hot pressed rod, hot pressed section, hot
pressed strip, hot rolled sheet, cold rolled sheet, forged piece, double pressing

ABSTRACT: Immersion-cast ingots (diameter 260 mm) of alloy VAD23 (5.1-5.7% Cu, 1.2-
1.4% Li, 0.096-0.11% Cd, 0.60-0.7% Mn, 0.15-0.25% Ti) were hot pressed (430-450C)
into rods (intermediate diameter 127 mm or final diameter 20 mm), sections PR306-7,
strips with 25x210 mm cross section and pressed panels. The pieces were water quenched
from 525±5C, then aged 16 hours at 170C. Sheets 1.0, 1.5 and 2.0 mm thick were hot

Card 1/2

ACCESSION NR: AT4037660

rolled from strips to 6.0-5.5 mm, then cold rolled to desired thickness with intermediate annealing and finally heat treated (water quenched from 523±5C, aged 16 hours at 170±5C). Forgings (90 or 120x200x400 mm) were forged on a vertical press (deformation 65%, preheating 3 hours to 420-440C) from rods (diameter 180 mm) and heat treated as for sheets. Pressed shapes exhibited high tensile strength (66-70 kg/mm²) at a relative elongation of 3-4%. It was noted that double pressing (i. e., into intermediate diameter rods, then final shape) reduced the tensile strength and increased the plasticity. Mechanical properties of sheets and forgings were lower than those of the pressed shapes. "K. N. Fomin, N. S. Lebedeva, P. G. Reznik, N. Averkina, L. S. Zheltovskaya, Yu. A. Vorob'yev and N. N. Tyurin also took part in the work." Orig. art. has: 7 tables.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 04Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 000

OTHER: 000

Card 2/2

86064

S/180/60/000/005/005/033

E111/E135

18 7500

1146.1416.1418

AUTHORS:

Bychkova, Z.S., Vinogradov, Yu.V., Danil'chenko, A.N.,
Bzugutov, M.Ya., Mezis, V.Ya., Rastegayev, M.V., and
Stepanov, V.P. (Moscow)

TITLE:

Investigation of the Recrystallization of Cast
Nickel-Based Heat Resisting Alloy

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh
nauk, Metallurgiya i toplivo, 1960, No. 5, pp. 70-78

TEXT: The authors describe their investigation of the
difficultly deformable nickel-based alloy "E" (B, without giving its
composition). The object of the work was to study conditions for
its hot deformation, with special reference to recrystallization.
The microstructure of the cast alloy is shown in the top left
section of Fig. 1, while that after 14% linear compression (as
described by Rastegayev, Ref. 1) is shown in the top right.
Differences in grain size under different conditions are illus-
trated by the lower sections of Fig. 1. For the main
investigation the authors used a production ingot of the alloy to
make blanks (somewhat larger than in the original use of linear
deformation (Ref. 1) which were deformed at 1100, 1150, 1200 and
Card 1/3

86064

S/180/60/000/005/005/033
E111/E135

Investigation of the Recrystallization of Cast Nickel-Based Heat Resisting Alloy

1240 °C to 0.5-80%. After air cooling, the deformed specimens were cut vertically into four parts; one of which was annealed at the deformation temperature for 2 hours, another at 1200 °C for 5 hours. Polished sections were made from each. Results are presented as graphs of average grain size against degree of deformation and temperature. Figs 2, 3 and 4 relate, respectively, to deformation without annealing, deformation with annealing at the same temperature, and deformation with annealing at 1200 °C. Complete-recrystallization regions with a sound or defective structure and with welded defects are indicated. Fig. 5 illustrates microstructures of undeformed and deformed specimens. At high degrees of deformation defects formed at lower degrees are welded up. New grains appear and grow at all stages of hot deformation. An investigation was also made of the influence of high-temperature treatment (pressure or heat) on the heat-resisting characteristics. For this, type КРД-3 (KRD-3) circular test pieces were made from discs pressed from the alloy at 1250 °C (cooling to 750-800 °C in 10-12 min., then in air).

Card 2/3

86064

S/180/60/000/005/005/033
E111/E135

Investigation of the Recrystallization of Cast Nickel-Based
Heat Resisting Alloy

Structure was determined without (Table 1) and with (Table 2) deformation. Under certain conditions the heat resisting properties of the alloy are improved as a result of the appearance of serrations at grain boundaries (Fig. 6). The work was directed by I.M. Pavlov. There are 6 figures, 2 tables and 12 Soviet references.

SUBMITTED: June 1, 1960

Card 3/3

BYCHKOVA, Z.S.

3

3b519

S/659/61/007/000/006/044
D217/D303

18.11.50

AUTHORS: Rastegayev, M.V., Danil'chenko, N., Dzugutov, M.Ya.,
Bychkova, Z.S., Mezis, V.Ya., Vinogradov, Yu.V., and
Stepanov, V.F.

TITLE: Recrystallization of cast, deformation-resistant
alloys of the nichrome type

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Issledova-
niya po zharoprochnym splavam, v. 7, 1960, 47 - 57

TEXT: The work was carried out under the supervision of I.M. Pav-
lova. The recrystallization of nichrome-type alloy has been stu-
died very little, since their low plasticity in the cast state ma-
kes experimenting difficult. Therefore, a new method of hot working
had to be developed, rendering upsetting without rupturing possible.
This method, in which uniform upsetting is achieved, consists of
making shallow flat grooves (0.5 - 0.8 mm) with rims of 0.5 mm
width, in the end faces of a cylindrical specimens (20 mm long and
20 mm diameter). The grooves are filled with moistened asbestos or

Card 1/3

✓

3

S/659/61/007/000/006/044
D217/D303

Recrystallization of cast, ...

water glass, acting as lubricants during high temperature deformation under a drop hammer or press. This enables the contact friction to be decreased to a minimum and thereby permits deformation under conditions of linear compression. The results of investigations of recrystallization processes occurring in metallic alloys on hot working by pressure, are usually presented in the form of space diagrams of recrystallization of the second order within the coordinates "temperature, grain size and degree of deformation". However, these diagrams do not represent the entire recrystallization process which includes the old crystals to a certain extent, as well as any possible intercrystalline failures and their weldability. Therefore, the regions of full and incomplete recrystallization, as well as regions of failure and weldability between the crystals, should be indicated. A nichrome type alloy ingot, made under production conditions, was used in the investigation. Since the maximum transverse diameter of the dendritic crystals of the ingot alloy is 10 - 13 mm, the dimensions of the specimens were increased to 20 mm diameter and 40 mm length, as against 20 x 20 mm used in the uniform upsetting method. The dimensions of the end fa-

Card 2/3

X

SHUL'GA, N. A.

SHUL'GA, N. A.; BUKHALOVA, G. A.

Fusibility in the systems $\text{Na}_2\text{F}_2 - \text{BaCl}_2 - \text{CaF}_2$ and $\text{K}_2\text{Cl}_2 - \text{BaCl}_2 -$

$-\text{CaF}_2$. Zhur.neorg.khim. 2 no.9:2136-2144 S '57. (MIRA 10:12)
(Fusion) (Systems (Chemistry)) (Crystallization)

